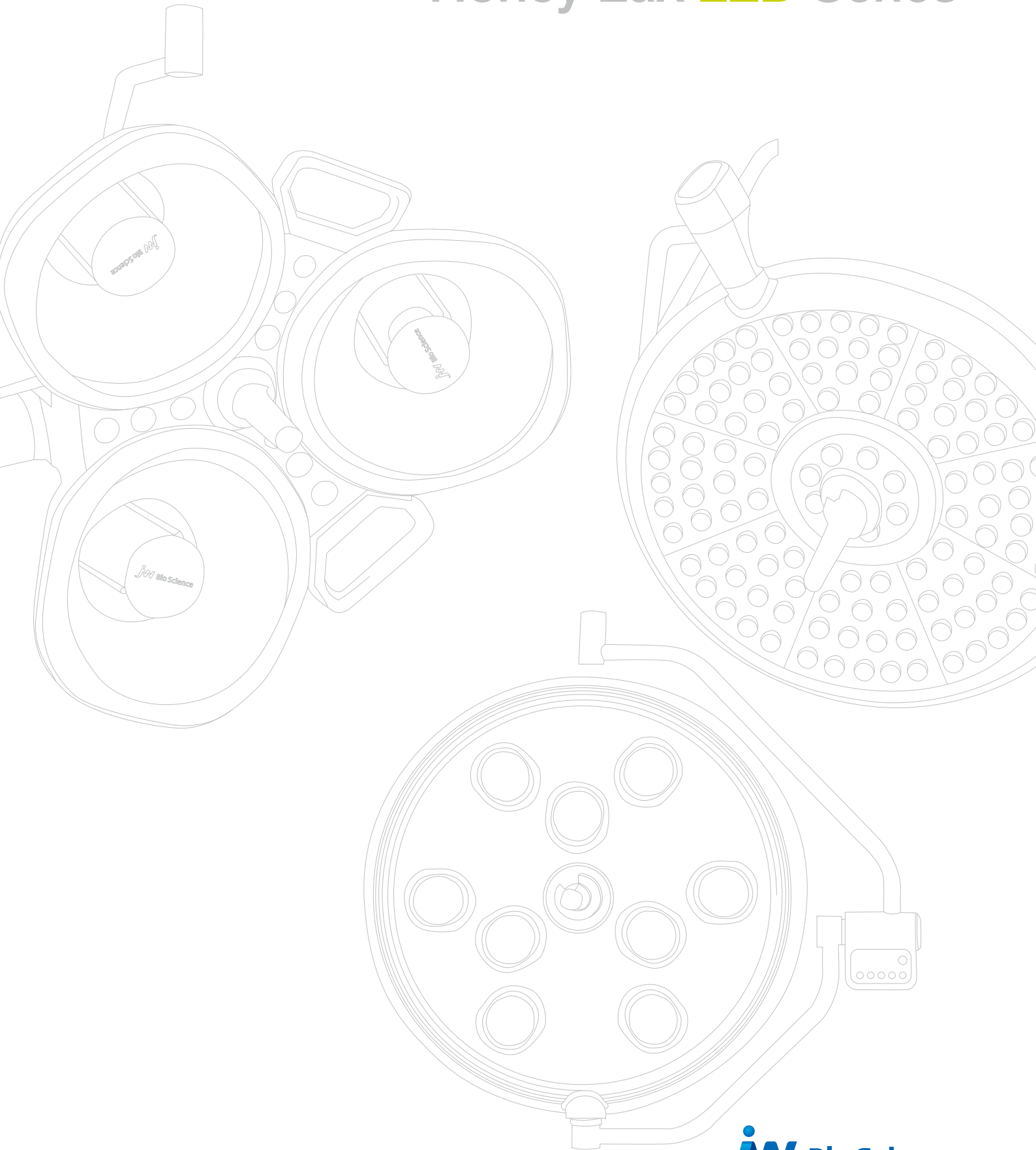


Surgical Light
Honey Lux **LED** Series



Honey Lux LED RK

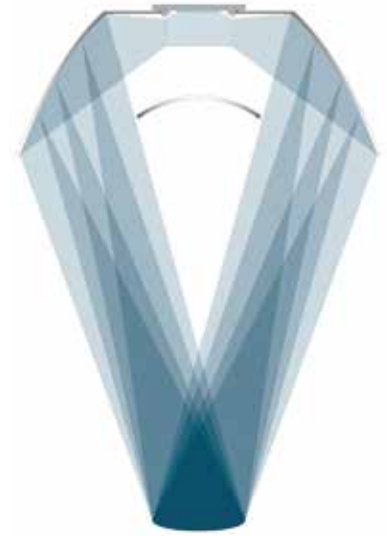


Unique LED Optical Structure

Combined technology of Reflector optical structure and LED module with unique LENS which is developed by JW R&D.

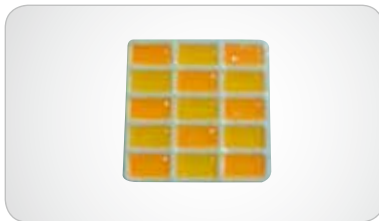
Unique LED optical structure mixes light through 2 steps and creates excellent illumination effect.

- Uniform generation of light through many light field overlays by unique lens and reflector
- Long life time LED module (up to 50,000 hours)
- Excellent shadowless effect through multi optical surface
- Non-blurring LED light through unique LED optical structure



High Technology LED module & JW's own Lens

White LED made of minimum size of matrix and unique lens provide optimal condition of lights.



- Minimize color temperature imbalance of LED
- Constant value of CRI=96 and R9=95 regardless of change of color temperature
- Combination of color temperature in any focusing position
- Adjustable color temperature according to surgical circumstances and individual preferences at 3 steps (3,800K, 4,400K and 5,100K)



[3800K]



[4400K]



[5100K]

Honey Lux LED RK

EXCELLENT SHADOW CONTROL

Multi optical surface provides excellent shadowless effect
Advanced LED module by JW (Modular mixing technology)

MANUAL FOCUSING

Users can easily control the light at any position

ENDO-MODE

Suitable for endo-surgery by one click

ADJUSTABLE COLOR TEMPERATURE

3,800K, 4,400K, 5,100K



UNIQUE HEADLIGHT DESIGN

JW Blue color and future-oriented spaceship design

NON-BLURRING LIGHT

LED module developed by JW R&D provides comfortable surgical environment

EXPANDABILITY

Single Type



- LED 160RK
- LED 120RK

Dual Type



- LED 160RK/120RK
- LED 160RK/160RK
- LED 120RK/120RK

Mobile Type

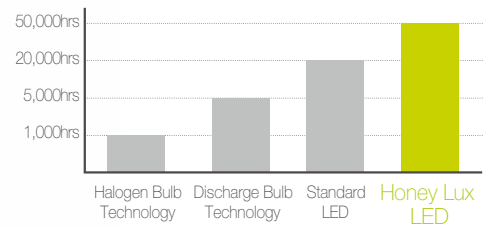


- LED RK 160
- LED RK 120



360° ROTATING ARM

LONG SERVICE LIFE



STERILIZABLE HANDLE

Autoclave available

ACCURATE COLOR RENDERING

Constant value of CRI=96 and R9=95 regardless of change of color temperature

CONTROL MODE

Main Controller



Wall Controller (Option)



Remote Controller (Option)



Honey Lux LED



Innovative LED Technology

Honey Lux LED is implemented with a LED which is a cutting-edge technology.

Compared with the conventional halogen lighting apparatuses, the heat radiation from the lamp is greatly reduced, minimizing the inconvenience of the operator during surgical operation and the maintenance cost due to long lamp service life.

Designed in classic round-type configuration, the JW's Honey Lux LED is easy for service including cleaning, and the touch buttons facilitate an easy control.

The Layered Silver Deco-Line complements the unique design of the JW's Honey Lux LED.



Manual Focusing

Manual focusing sterilizable handle control the light more easily when it compares with automatic focus function.

It provides users to freely and accurately focus the surgical light and extends working spaces of the surgical field.

Just a short adjustment of the focus handle by hands will be maximizing light intensity without having to reposition of the light heads.



Honey Lux LED

EXCELLENT SHADOW CONTROL

120EA(LED 160) & 88EA(LED 120) LED provide excellent shadowless effect

MANUAL FOCUSING

Users can easily control the light at any position

STREAMLINED DESIGN

Suitable for laminar flow ceiling

STERILIZABLE HANDLE

Autoclave available



EXPANDABILITY



- LED 160
- LED 120



- LED 160/120
- LED 160/160
- LED 120/120



- LED 160/120 VISION
- LED 160/160 VISION
- LED 120/120 VISION

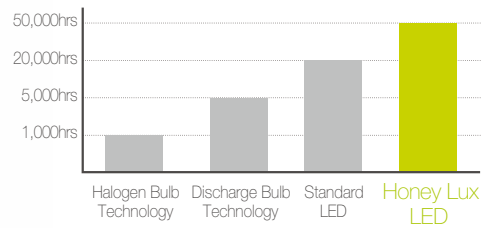


- LED 160
- LED 120



360° ROTATING ARM

LONG SERVICE LIFE



FULL HD CAMERA CONTROL

Camera offers multimedia and interactive communication (option)

MODULAR LAMP

Low maintenance requirement due to modular lamp inside



ENDO-MODE

Suitable for endo-surgery by one click

CONTROL MODE

Main Controller



Wall Controller (Option)



Remote Controller (Option)



Honey Lux **LED ECO**

EXCELLENT ILLUMINATION

Special filter glasses maximize focusing effect clearly

STERILIZABLE HANDLE

Autoclave available

EASY TO CLEAN

Cleanliness is all-important for OR and the rounded figure helps easy cleaning, making the model suitable for the OR



EXPANDABILITY

Single Type



- LED ECO 130
- LED ECO 90

Dual Type



- LED ECO 130/90
- LED ECO 130/130
- LED ECO 90/90



360° ROTATING ARM

MANUAL FOCUSING

Users can easily control the light at any position

DIMMING

5 Steps of dimming range can be controlled by controller on Honey Lux LED ECO as well as by IR remote controller(option)

STREAMLINED DESIGN

Suitable for laminar flow ceiling

CONTROL MODE

Main Controller



Remote Controller (Option)



TECHNICAL SPECIFICATIONS

Honey Lux LED RK		LED 160RK	LED 120RK
Max Illumination	(lux)	160,000	120,000
LED Service Life	(hours)	50,000	50,000
Color Temperatur	(K)	3,800/4,400/5,100	3,800/4,400/5,100
Color Rendering Index	(Ra)	≤96	≤96
Light Field Diameter	(cm)	18~25	18~25
Depth of Illumination	(cm)	110	120
Dimming Range	(%)	20~100 (5Steps) (±10%)	20~100 (5Steps) (±10%)
Power Consumption		130VA	110VA
Power Supply		100~240VAC, 50/60Hz	100~240VAC, 50/60Hz
Number of LED Bulbs		3	2

Honey Lux LED		LED 160	LED 120
Max Illumination	(lux)	160,000	120,000
LED Service Life	(hours)	50,000	50,000
Color Temperature	(K)	4,300 (Single color temperature) 3,800/4,400/5,100 (Multi color temperature)	4,300 (Single color temperature) 3,800/4,400/5,100 (Multi color temperature)
Color Rendering Index	(Ra)	≤94	≤94
Light Field Diameter	(cm)	22~31	22~29
Depth of Illumination	(cm)	113	150
Lighthouse Diameter	(cm)	77	62
Dimming Range	(%)	10~100 (10Steps) (±10%)	10~100 (10Steps) (±10%)
Power Consumption		110VA	110VA
Power Supply		110~230VAC, 50/60Hz	110~230VAC, 50/60Hz
Number of LED Bulbs		120	88

Honey Lux LED ECO		LED ECO 130	LED ECO 90
Max Illumination	(lux)	130,000	90,000
LED Service Life	(hours)	30,000	30,000
Color Temperature	(K)	4,000	4,000
Color Rendering Index	(Ra)	≤90	≤90
Light Field Diameter	(cm)	18	17
Depth of Illumination	(cm)	69	71
Lighthouse Diameter	(cm)	77	62
Dimming Range	(%)	20~100 (5Steps)	20~100 (5Steps)
Power Consumption		95VA	80VA
Power Supply		220VAC, 60Hz	220VAC, 60Hz
Number of LED Bulbs		9	6

※ All technical specifications max. +/-10% tolerance

FULL HD CAMERA(OPTIONAL)

Image sensor	1/3-type CMOS	Exposure (Iris)	Automatic / Manual
Video output	Y/Pb/Pr, HD-SDI	Minimum illumination	1.0 Lux (ICR On Mode)
Effective picture elements	Approx. 2,000,000 pixels (1,920*1,080)	Signal/Noise ratio	More than 50dB
Aspect ratio	16:9	Focus	Automatic / Manual
Lens	10X zoom, f=5.1 mm (wide) to 51mm (tele), F 1.8 to F 2.1	Camera rotation	Clockwise / Counter Clockwise 360 Degrees
Zoom ratio	10X - 120X (10X Optical, 10X Digital)	Outside dimensions	φ71 mm x 137 mm
Range of focus	10 mm (wide end), 800 mm (tele end)	Weight	Approx. 990g



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